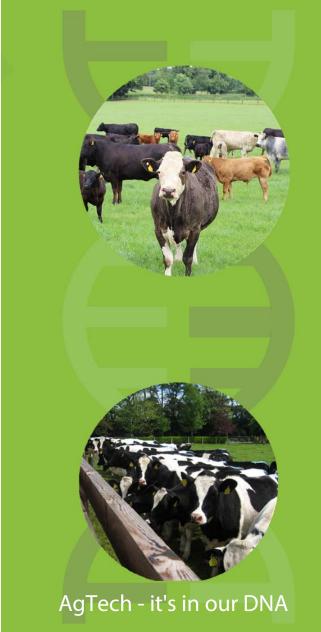
COF

The evolving landscape of beef from the dairy herd: A perspective from Ireland

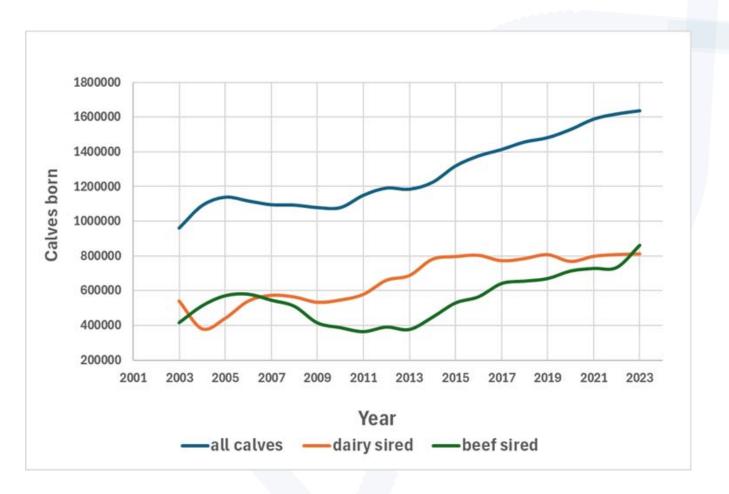
Ross Evans ICBF





Dairy herd birth trends



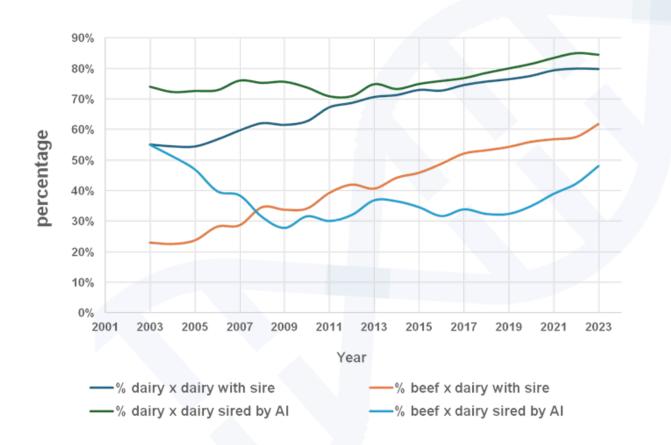


- •2023 Beef sired births now more than dairy sired
- •60% of beef carcasses now of dairy origin
- •Herd size 69 to 101 cows



Sire recording levels



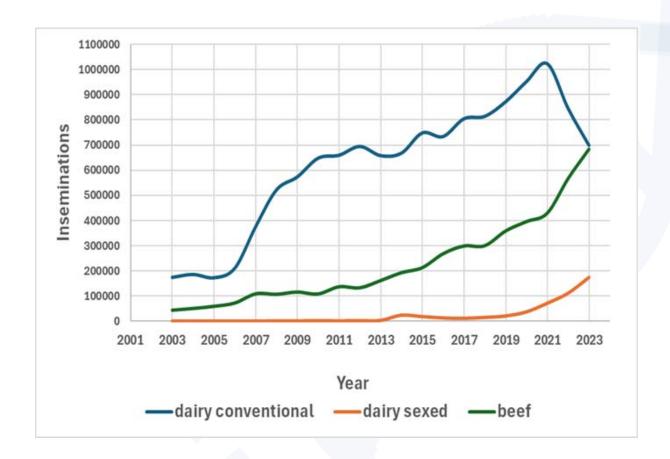


- Farmers did not see huge benefit to recording beef sires up to now
- Al replacing some of the natural service sire market
- National genotyping program will increase sire recording levels



Insemination trends



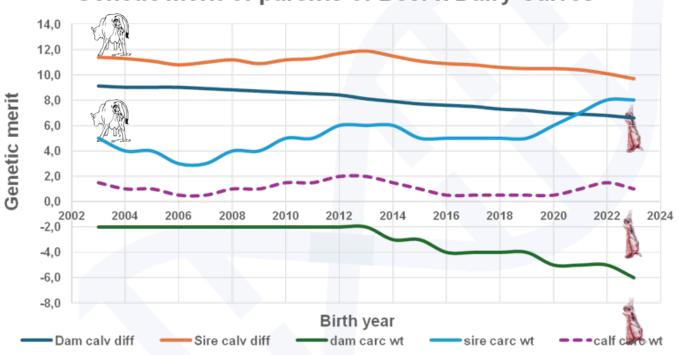


- Beef inseminations now close to dairy
- Sexed dairy semen on an upward curve



The challenge!

Genetic merit of parents of Beef x Dairy Calves

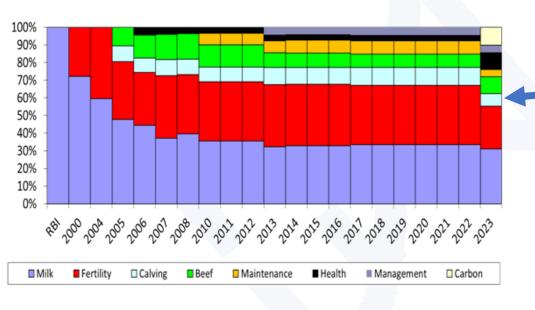


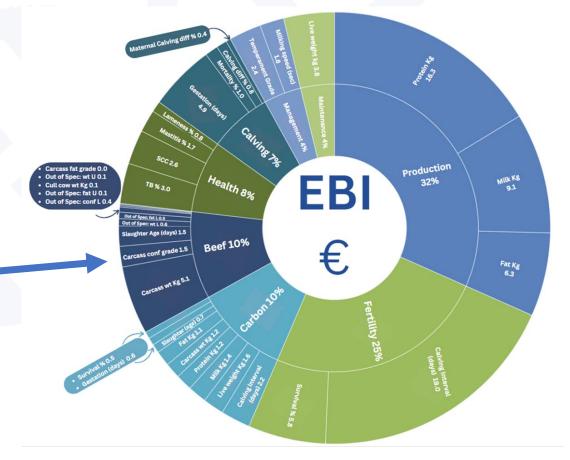
- •Farmers prioritised calving traits, Milk and fertility over beef merit of calves
- •Net stagnant carcass merit from dairy cow progeny



Even though!

Dairy breeding index has included a beef component for almost 20 years



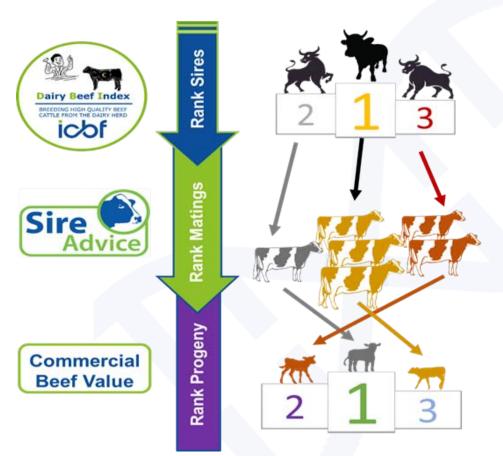






The proposed solution

A Trilogy of breeding tools



Farm best practice

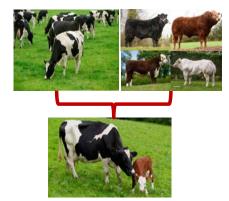


Objectives



- •€500/ha per hectare
- Beef and Dairy integration
- •Improve beef merit of dairy-beef calves
- Promote best practices
 - Grass management, calf rearing, health
- •Reduce environmental impact

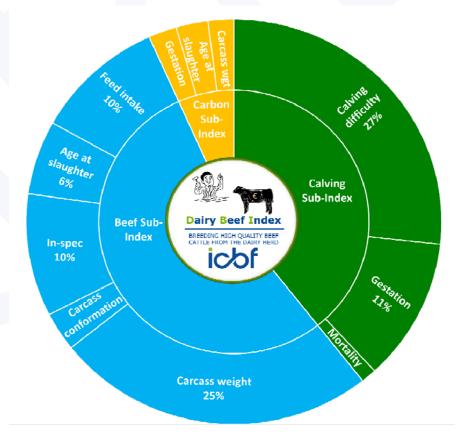




Dairy Beef Index (DBI)



- Identifies beef bulls suitable for the dairy herd
 - Calving traits
 - Carcass traits
 - Carbon traits
 - Launched in 2019
 - Updated in 2023 to include age at slaughter, TB, Carbon













Mating advice

1. Farmer chooses sires and usage rates

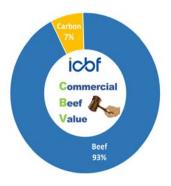
 Farmer choses females for dairy, beef, culling, crossbreeding....

2. Linear programming algorithm factors:

- Female predisposition to difficult calving + sire's calving difficulty genetic merit
- Hitting the carcass spec
- 3. Farmer can save on database and send to technician handheld
- 4. 42% of cows were put through Sire Advice in 2024



Commercial Beef Value and NGP





Thursday 08:18 Session 1a: Decision Support Tools of the Future – Promoting Sustainability Farm Management

Margaret Kelleher: The Commercial Beef Value (CBV) encourages the adoption of sustainable and profitable practices in beef production.





Thursday 16:45 Session 9: Genomic's impact on Livestock Sustainability

Mark Waters: Unlocking Genetic Potential: The National Genotyping Programme for Ireland's Cattle Herd



Progeny testing programme







Common herds



490 herds in dairy 614 herds in beef 290 herds in both 25 straws: 5x5

~ 22k straws



44 sires in 2024 from 6 breeds

Common sires



377 sires tested in both programs



Initiatives with Meat Processors

Genotyping



- Breed surety
- Genetic merit



Sensory attributes of meat

Trained panel MEQ EBVs



- Tenderness
- Juiciness
- Flavour



Climate

Leverage the database Genetics, diet, systems



Carbon footprint / Carbon efficiency											
106	3203	4446	3360	93% * * * * *							
106	10.23	13.17	11.11	96% ★★★★★							
106	5.42	6.99	5.89	96% ★★★★★							
	106	106 10.23	106 10.23 13.17	106 10.23 13.17 11.11							









Other initiatives.....

Methane PTAs

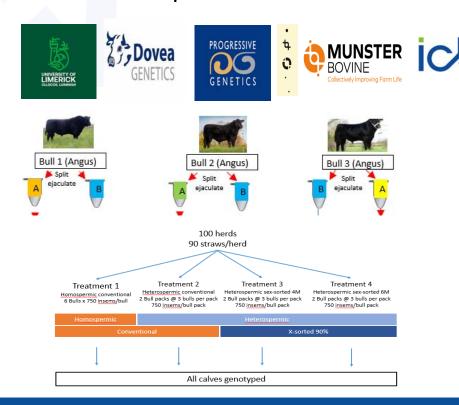




525 Tull		phenotype	rs and	3,348 animals with feed intak								
he most desirable PTAs are negative indicating the progeny will emit less methane. The trait is measured in grams per day he data has been collected at the Tully beef performance research centre CRF200.0 for more information plans call 023800053 or tog orion weakstycom												
Tog	Name	Main Breed	Birth True	Owner	Active	Methana Gebe	Direction of PCA relative to average size	Methone Beliability N	Name Programy in small	And power contracts the the	besidend wat yes	Ang Marthan of Progen
CAMA	SAMONA	LM	3006	SILROGONEZUC ALBIALS	· V	-27.87	Favourable	80	. 7	267	330	181
1,M2188	WILDOOD XOSKINS	LM	3034	SOOVER GENETICE	· V	-24.F	Faccurable	36	1	416	401	- 160
1807136	TOMSCHOICE MONSTONE	LM	3015	PARTICHAL CATTLE BREEDING CNTH	-	-24.69	Favourable	70	- 11	3.79	401	179
1564007	TOMSCHOICE JET	LM	2034	SURGISME/LIC AS BUILDS		-34.26	Favourable	61	7	343	-867	265
ZMG	CASTLEVIEW GAZELLE	134	3011	PARTICALAL CATTLE BREEDING CNTR	T.	-21.35	Favourable	67	2	267	471	156
CHESTER	BALLPGARVAN STUD IN	LIM -	3011	IGENERALAND MATERIAL PROGR.	1000	-21.93	Feodurable	20	1	194	-463	188
1364027	MACEL	LMF	2009	BOVA	Y .	-23.83	Favourable	82	- 7	218	435	155
LMS400	9000	LM	3017	PARTIONAL CATTLE BREEDING OVER	7	-22.29	Favorurable	28	7	227	349	242
(MONE)	14	LM	2011	SCENERGLAND MATERINAL PROGR.		-22.69	Favourable	47	1	794	435	159
1365443	BROOKLANDS MARCO	1,94	3017	DOVEA GENETICS	Y	-21.09	Favourable	- 17	1	188	703	262
LM2206	BLITE ICE CREAM ET	LM	3011	MATIONAL CATTLE BREEDING CHTS		-31.79	Favourable	36	1.	347	-640	1.79
PU117	CURECUSO	Pt	2014	DENERILAND MATERNAL PROGR.		-30.75	Favourable	17		211	-400	189
LNASTAR :	CORCAMORE LORCAN	186	2015	CONCRETANCIMATERNAL PROCE		-30.43	Epitochie	68	12	243	400	250

- 2k greenfeed animals on TMR diet
- Expansion to grass diet phenotypes
- Cow phenotypes

Improving male fertility 2024 Heterospermic semen field trial





Summary

- Dairy herd has expanded by ~24% since 2015
- Beef from dairy now 60% of all beef processed
- Strategy focusing on both beef sire and dairy cow beef merit
- Breeding goals for beef herd and dairy herd now more aligned
- Meat processors now engaged and see benefit of genetic solutions
- Utilizing the cattle breeding database for more than just genetic gain

